

Name _____

Period _____

A PHENOTYPE STUDY

A phenotype is the appearance you have due to your *genes*. The phenotype may be due to DOMINANT or RECESSIVE genes.

- A. **Traits** (appearances) are controlled by two genes at a time. One from mom and one from dad.
- B. **Dominant genes** always show up even if you only have one gene that is dominant. Only one dominant gene is needed to have a dominant trait.
- C. **Recessive genes** can be hidden by a dominant gene. You must have two recessive genes to show a recessive trait.

COMPLETE THE CHART BELOW BASED ON YOUR OWN TRAITS:

Dominant traits	Recessive traits	Describe or diagram your phenotype	Dominant?	Recessive?	A family member's Phenotype
					(name)
TONGUE ROLLER	NON TONGUE ROLLER				
WIDOW'S PEAK	NO WIDOW'S PEAK				
FREE-HANGING EAR-LOBES	ATTACHED EAR-LOBES				
LONGER 2 ND TOE	BIG TOE THE LONGEST				
MID-DIGITAL HAIR	NO MID-DIGITAL HAIR				
DIMPLES	NO DIMPLES				
HITCHHIKER THUMB	NO HITCHHIKER THUMB				
NATURAL DARK HAIR	NATURAL LIGHT HAIR				
NATURAL CURLY HAIR	NATURAL STRAIGHT HAIR				
CONVEX NOSE (HOOKED NOSE)	STRAIGHT OR CONCAVE NOSE (SKI JUMP NOSE)				
RIGHT HANDED	LEFT HANDED				
RIGHT THUMB OVER LEFT THUMB	LEFT THUMB OVER RIGHT THUMB				
TASTER	NONTASTER				

Conclusion:

1. How many dominant traits did you have? _____. Your family member? _____
2. How many recessive traits did you have? _____. Your family member? _____
3. What is a phenotype? _____